No. of Printed Pages : **2**

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Reg. No. | | | | | | | | |

IV Semester B.C.A.3 Degree Examination, May - 2019

PROGRAMMING USING JAVA

THEORY

(RCU 2017 - 18 Repeaters)

Time : 3 Hours | Maximum Marks : 80

Instructions : *(1)* ***All*** *Sections are* ***compulsory****.*

(2) Draw diagrams whenever necessary.

SECTION - A

1. Answer **any 10** of the following. **2x10=20**

(a) List out the features of Java.

(b) How Java differs from C++?

(c) Define Java statements.

(d) Define default constructor.

(e) Define type casting.

(f) List out all operators in Java.

(g) Write the syntax of If..else statement in java.

(h) Define class and object.

(i) Define interfaces in Java.

(j) Define Applets.

(k) Define stream classes.

(l) Define exceptions in Java.

SECTION - B

Answer **any 4** of the following. **4x5=20**

2. Explain decision making in Java.

3. Explain arrays and different types of arrays in Java.

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4. Explain method overloading in Java.

5. Explain the life cycle of Applets.

6. Explain method overriding in Java.

7. Explain exception handling in Java.

SECTION - C

Answer **any 4** of the following. **4x10=40**

8. (a) Explain threads in Java. **4**
   (b) Explain the life cycle of threads. **6**

9. (a) Explain constructors in Java. **4**
   (b) Write a program in Java on interfaces. **6**

10. (a) Explain how applets differ from applications. **5**
    (b) Write a program in Java on multilevel inheritance. **5**

11. Explain the different types of looping statements in Java with an example for each. **10**

12. Explain in detail byte stream class and character stream classes. **10**

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